QC ABSTRACT

Nameof Work: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	WMM	322.62 Cum	-	-	-	-
		Gradation	4	4	-	-
		AIV	2	2	-	-
		Shape Test	2	2	-	-
		Atterberg Limits	4	4	-	-
2	DBM	96.54 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	2	2	-	-
		Bitumen content	2	2	-	-
3	BC	181.72 Cum	-	-	-	-
		Quality of Binder	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-
		Specific Gravity	1	1	-	-
		Stability of Mix	4	4	-	-
		Bitumen content	4	4	-	-
4	100mm Slab	220.32 Sqm	1	1	Concrete core Compressive Strength	-

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಇ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ.ಕೆ.ಎಂ.ಪಿ
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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date: 07.07.2022

TEST REPORT ON CEMENT

Client :Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Nagaraja K, Contractor, Bangalore.

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : June - 2022

Date of Testing 05.07.2022 to 07.07.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	128 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	339 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Authorised Signatory

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date : 05.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client :**Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

Date of Testing : 05.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	126	12.60	21.50	78.5	75-100
1.18	182	18.20	39.70	60.3	55-90
600 Micron	165	16.50	56.20	43.8	35-59
300 Micron	256	25.60	81.80	18.2	8-30
150 Micron	138	13.80	95.60	4.4	0-10

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date : 05.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagaraja K,** Contractor, Bangalore.

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

Date of Testing : 05.07.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14.5	1.45	1.45	98.6	90-100
1.18	38.6	3.86	5.31	94.7	70-100
600 Micron	83	8.30	13.61	86.4	40-100
300 Micron	255	25.50	39.11	60.9	5-70
150 Micron	487	48.70	87.81	12.2	0-15

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Job No.: CACE/BBMP/NK/W No.14/2022-2023

Date: 08.07.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Contractor	:	**: Sri. Nagaraja K, Contractor, Bangalore.**
Name of Work	:	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
No.of Sample Tested	:	03
Date of Testing	:	08.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	100.00	0.375	1909.86	2.00	1.000	29.15	14.85	16.03	16.03	20.04
2	50.00	101.00	0.389	1961.55	2.02	1.002	30.45	15.51	16.75	16.78	20.98
3	50.00	102.00	0.399	1992.25	2.04	1.004	31.28	15.93	17.21	17.28	21.60

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Job No.: CACE/BBMP/NK/W No.14/2022-2023

Date : 14.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja K, Contractor, Bangalore.
Name of Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	14.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.90	12.10	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.20	13.60	
	Combined Flakiness & Elongation index	25.10	25.70	

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date : 14.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja K, Contractor, Bangalore.
Name of Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	14.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.00	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.50	13.30	
	Combined Flakiness & Elongation index	25.60	25.30	

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date :14.07.2022

GRADATION FOR WMM

Client :**Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :14.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	191	191	1.9	98.1	95-100
22.4	2522	2713	27.1	72.9	60-80
11.2	2163	4876	48.8	51.2	40-60
4.75	1843	6719	67.2	32.8	25-40
2.36	1175	7894	78.9	21.1	15-30
0.600	622	8516	85.2	14.8	8-22
0.075	1234	9750	97.5	2.5	0-5

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GRADATION FOR WMM

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Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :14.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	185	185	1.9	98.2	95-100
22.4	2533	2718	27.2	72.8	60-80
11.2	2155	4873	48.7	51.3	40-60
4.75	1843	6716	67.2	32.8	25-40
2.36	1182	7898	79.0	21.0	15-30
0.600	578	8476	84.8	15.2	8-22
0.075	1236	9712	97.1	2.9	0-5

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Date :14.07.2022

GRADATION FOR WMM

Client :**Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :14.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2539	2738	27.4	72.6	60-80
11.2	2169	4907	49.1	50.9	40-60
4.75	1839	6746	67.5	32.5	25-40
2.36	1179	7925	79.3	20.8	15-30
0.600	629	8554	85.5	14.5	8-22
0.075	1232	9786	97.9	2.1	0-5

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Date :14.07.2022

GRADATION FOR WMM

Client :**Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :14.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	180	180	1.8	98.2	95-100
22.4	2555	2735	27.4	72.7	60-80
11.2	2153	4888	48.9	51.1	40-60
4.75	1843	6731	67.3	32.7	25-40
2.36	1183	7914	79.1	20.9	15-30
0.600	582	8496	85.0	15.0	8-22
0.075	1232	9728	97.3	2.7	0-5

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Job No.: CACE/BBMP/NK/W No.14/2022-2023

Date: 14.07.2022

Aggregate Impact Value

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja K, Contractor, Bangalore.
Name of the Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	14.07.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.31	22.51	22.41

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date: 14.07.2022

Aggregate Impact Value

Client	**:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Nagaraja K, Contractor, Bangalore.**
Name of the Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	14.07.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	22.92	22.77

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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ಬಾಗಲಗುಂಟೆ, ಜಿ.ಕೆ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073.

Note:

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Job No.: CACE/BBMP/NK/W No.14/2022-2023

Date :14.07.2022

ATTERBERG LIMITS TEST FOR WMM

Client :Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Nagaraja K, Contractor, Bangalore.

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 12.07.2022 to 14.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.60	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date :14.07.2022

ATTERBERG LIMITS TEST FOR WMM

Client :Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Nagaraja K, Contractor, Bangalore.

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 12.07.2022 to 14.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date :14.07.2022

ATTERBERG LIMITS TEST FOR WMM

Client :Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Nagaraja K, Contractor, Bangalore.

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 12.07.2022 to 14.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/NK/W No.14/2022-2023

Date :14.07.2022

ATTERBERG LIMITS TEST FOR WMM

Client :**Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Nagaraja K, Contractor, Bangalore.**

Name of Work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 12.07.2022 to 14.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date: 17.07.2022

Specific Gravity And Water Absorption Test

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja K, Contractor, Bangalore.
Name of the Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	15.07.2022 to 17.07.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2023	
2	Weight of basket suspended in water	W_2 g	756	756	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1264	1266	1267	
4	Weight of saturated surface dry aggregate in air	W_3 g	2017	2016	2015	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	753	750	748	
6	Weight of oven dried aggregate	W_4 g	2007	2007	2005	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.665	2.676	2.680	2.674
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.701	2.709	2.717	2.709
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.45%	0.50%	0.48%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

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Job No.: CACE/BBMP/NK/W No.14/2022-2023 Date: 15.07.2022

Aggregate Gradation Test

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja K, Contractor, Bangalore.
Name of the Work	: De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	15.07.2022

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	713	7.1	7.13	92.87	90 - 100	
19.00	1261	12.6	19.74	80.26	71 - 95	
13.20	1381	13.8	33.55	66.45	56 - 80	
4.75	2514	25.1	58.69	41.31	38 - 54	
2.36	1087	10.9	69.56	30.44	28 - 42	
0.300	1381	13.8	83.37	16.63	7 - 21	
0.075	1255	12.6	95.92	4.08	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	688	6.9	6.88	93.12	90 - 100	
19	1416	14.2	21.04	78.96	71 - 95	
13.2	1136	11.4	32.40	67.60	56 - 80	
4.75	2415	24.2	56.55	43.45	38 - 54	
2.360	1251	12.5	69.06	30.94	28 - 42	
0.300	1314	13.1	82.20	17.80	7 - 21	
0.075	1174	11.7	93.94	6.06	2 - 8	

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JobNo: CACE/BBMP/NK/W No.14/2022-2023 Date : 15.07.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client :Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Nagaraja K, Contractor, Bangalore.

Name of work : De-Siliting and Re-Setting of Drain and Re-Asphalting to 8th B Cross 9th Cross 15th 18th Main and Other Cross Roads in Ward No 14 Bagalagunte.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 15.07.2022

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	383	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	296	296	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.72	23.12	**22.92**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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